

## **IN THE CLAIMS**

*This listing of claims will replace all prior versions and listings of claims in the application.*

### **Listing of Claims:**

1. (Original) A receiving device for carrying out an interpolating synchronous detection when receiving a code division multiple signal, comprising:
  - storage means for storing receive data which are an object to be detected synchronously; and
    - control means for switching a storage of the receive data which are the object to be detected synchronously in the storage means before or after a reverse diffusion.
2. (Original) The receiving device according to claim 1, wherein the control means changes a storage order for the receive data based on symbol rate information obtained when demodulating the receive data.
3. (Original) The receiving device according to claim 1, wherein the control means changes a storage order for the receive data based on multipass information obtained when demodulating the receive data.
4. (Original) The receiving device according to claim 1, wherein the control means changes a storage order for the receive data in response to an instruction sent from a power control system of the receiving device.  
..
5. (Currently Amended) The receiving device according to ~~any of claims 1 to 4~~ claim 1, further comprising means for carrying out a receipt processing corresponding to

a plurality of multipasses, thereby rake synthesizing a plurality of receiving signals demodulated on a pass correspondence.

6. (Currently Amended) The receiving device according to ~~any of claims 1 to 5~~ claim 1, further comprising means for independently receiving a pilot symbol to carry out a phase estimation for a synchronous detection and receiving a data symbol, the control means carrying out a switching control for a storage of the received data symbol which are the object to be detected synchronously in the storage means before or after the reverse diffusion when independently receiving the pilot symbol and the data symbol respectively.

7. (Currently Amended) The receiving device according to ~~any of claims 1 to 5~~ claim 1, wherein a reverse diffusion processing and a synchronous detection processing for receiving signals of a plurality of channels are carried out by using an identical circuit.

8. (Currently Amended) The receiving device according to ~~any of claims 1 to 7~~ claim 1, wherein a reverse diffusion processing and a synchronous detection processing for receiving signals of a plurality of passes are carried out by using an identical circuit.

9. (Currently Amended) The receiving device according to ~~any of claims 1 to 8~~ claim 1, wherein a reverse diffusion processing, a synchronous detection processing and a rake synthesis processing for a plurality of passes and a plurality of channels are carried out at the same time by using an identical circuit.

10. (Currently Amended) The receiving device according to ~~any of claims 1 to 9~~ claim 1, wherein the storage means has storage memories corresponding to an oversampling degree or a plurality of storage memories.

11. (Currently Amended) The receiving device according to ~~any of claims 1 to 8~~  
claim 1, wherein receive data read continuously from the storage means are  
consecutively diffused reversely.

12. (Currently Amended) The receiving device according to ~~any of claims 1 to 11~~  
claim 1, wherein receive data read from the storage means in an optional order are  
diffused reversely.

13. (Currently Amended) The receiving device according to ~~any of claims 1 to 12~~  
claim 1, wherein the control means changes contents of a calculation in accordance  
with a program.

14. (Currently Amended) The receiving device according to ~~any of claims 1 to 13~~  
claim 1, wherein the storage means divides the data obtained before and after the  
reverse diffusion and stores them therein, respectively.

15. (Original) The receiving device according to claim 14, wherein the control means  
changes a storage order for the receive data depending on a symbol rate and the  
number of fingers in each of a plurality of receiving channels.

16. (Original) The receiving device according to claim 14, wherein when an error is  
found in a demodulating signal of a receiving signal, data stored in the storage means  
are synthesized with data retransmitted in accordance with a hybrid ARQ method.

17. (Currently Amended) --A semiconductor integrated circuit comprising the  
receiving device according to ~~any of claims 1 to 16~~claim 1.

18. (Currently Amended) A communicating device comprising the receiving device according to ~~any of claims 1 to 16~~ claim 1 or the semiconductor integrated circuit according to claim 17, wherein a code division multiplex communication is carried out.